

IN THE ABSTRACT:

Please amend the abstract as follows:

A1 In a processor cache, cache circuits are mapped into one or more logical modules. Each module may be powered down independently of other modules in response to microinstructions processed by the cache. Power control may be applied on a microinstruction-by-microinstruction basis. Because the microinstructions determine which modules are used, power savings may be achieved by powering down those modules that are not used. A cache layout organization may be modified to distribute a limited number of ways across addressable cache banks. By associating fewer than a total number of ways to a bank (for example, one or two ways), the size of memory clusters within the bank may be reduced. The reduction in this size of the memory cluster ~~contributes~~ reduces the power needed for an address decoder to address sets within the bank.
